

Xin-Sheng Zhao

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

1,740
citations

236925

25
h-index

276875

41
g-index

48
all docs

48
docs citations

48
times ranked

2626
citing authors

#	ARTICLE	IF	CITATIONS
1	AIE-active tetraphenylethene functionalized metal-organic framework for selective detection of nitroaromatic explosives and organic photocatalysis. <i>Chemical Communications</i> , 2016, 52, 11284-11287.	4.1	145
2	A hybrid carbon aerogel with both aligned and interconnected pores as interlayer for high-performance lithium-sulfur batteries. <i>Nano Research</i> , 2016, 9, 3735-3746.	10.4	140
3	Surface engineering by doping manganese into cobalt phosphide towards highly efficient bifunctional HER and OER electrocatalysis. <i>Applied Surface Science</i> , 2020, 515, 146059.	6.1	126
4	Materializing efficient methanol oxidation via electron delocalization in nickel hydroxide nanoribbon. <i>Nature Communications</i> , 2020, 11, 4647.	12.8	117
5	Hydrothermal Synthesis of Boron and Nitrogen Codoped Hollow Graphene Microspheres with Enhanced Electrocatalytic Activity for Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 19398-19407.	8.0	83
6	General Synthesis of Porous Mixed Metal Oxide Hollow Spheres with Enhanced Supercapacitive Properties. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 17226-17232.	8.0	80
7	Robust Metal-Organic Framework Containing Benzoselenadiazole for Highly Efficient Aerobic Cross-dehydrogenative Coupling Reactions under Visible Light. <i>Inorganic Chemistry</i> , 2016, 55, 1005-1007.	4.0	71
8	Hydrogen generation from alkaline NaBH ₄ solution using a dandelion-like Co-Mo-B catalyst supported on carbon cloth. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 9945-9951.	7.1	68
9	Highly efficient and reactivated electrocatalyst of ruthenium electrodeposited on nickel foam for hydrogen evolution from NaBH ₄ alkaline solution. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 592-600.	7.1	67
10	Fabrication of cubic Zn ₂ SnO ₄ /SnO ₂ complex hollow structures and their sunlight-driven photocatalytic activity. <i>Nanoscale</i> , 2016, 8, 12858-12862.	5.6	58
11	One-Pot Synthesis of B/P-Codoped Co-Mo Dual-Nanowafers Electrodeposited for Overall Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 20024-20033.	8.0	52
12	FeS-decorated hierarchical porous N, S-dual-doped carbon derived from silica-ionogel as an efficient catalyst for oxygen reduction reaction in alkaline media. <i>Electrochimica Acta</i> , 2018, 265, 221-231.	5.2	51
13	Excavated cubic platinum-iridium alloy nanocrystals with high-index facets as highly efficient electrocatalysts in N ₂ fixation to NH ₃ . <i>Chemical Communications</i> , 2019, 55, 9335-9338.	4.1	48
14	Facile synthesis of 3D hierarchical mesoporous Fe-C-N catalysts as efficient electrocatalysts for oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 5163-5174.	7.1	43
15	3D CNTs-threaded N-doped hierarchical porous carbon hybrid with embedded Co/CoO nanoparticles as efficient bifunctional catalysts for oxygen electrode reactions. <i>Electrochimica Acta</i> , 2018, 292, 707-717.	5.2	40
16	Facile Fabrication of Honeycomb-like Carbon Network-Encapsulated Fe ₃ C/Fe ₃ O ₄ with Enhanced Li-Storage Performance. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 35994-36001.	8.0	39
17	Integrated N-Co/Carbon Nanofiber Cathode for Highly Efficient Zinc-Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 29708-29717.	8.0	33
18	Overpotential-dependent shape evolution of gold nanocrystals grown in a deep eutectic solvent. <i>Nano Research</i> , 2016, 9, 3547-3557.	10.4	31

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19	Synthesis of bifunctional non-noble monolithic catalyst Co-W-P/carbon cloth for sodium borohydride hydrolysis and reduction of 4-nitrophenol. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 25860-25868.	7.1	30
20	Seeds and Potentials Mediated Synthesis of High-Index Faceted Gold Nanocrystals with Enhanced Electrocatalytic Activities. <i>Langmuir</i> , 2017, 33, 6991-6998.	3.5	30
21	Microwave-assisted synthesis of urea-containing zirconium metal-organic frameworks for heterogeneous catalysis of Henry reactions. <i>CrystEngComm</i> , 2019, 21, 1358-1362.	2.6	28
22	Surface plasma-etching treatment of cobalt nanoparticles-embedded honeysuckle-like nitrogen-doped carbon nanotubes to produce high-performance catalysts for rechargeable zinc-air batteries. <i>Journal of Power Sources</i> , 2020, 453, 227858.	7.8	28
23	Sepaktakraw-like catalyst Mn-doped CoP enabling ultrastable electrocatalytic oxygen evolution at 100 Åm ² in alkali media. <i>Rare Metals</i> , 2022, 41, 3069-3077.	7.1	28
24	A diiodo-BODIPY postmodified metal-organic framework for efficient heterogeneous organo-photocatalysis. <i>RSC Advances</i> , 2016, 6, 23995-23999.	3.6	26
25	Exploiting S,N co-doped 3D hierarchical porous carbon with Fe-N ₄ moiety as an efficient cathode electrocatalyst for advanced Zn-air battery. <i>Electrochimica Acta</i> , 2020, 364, 137301.	5.2	25
26	Enhancing electrocatalytic nitrogen reduction to ammonia with rare earths (La, Y, and Sc) on high-index faceted platinum alloy concave nanocubes. <i>Journal of Materials Chemistry A</i> , 2021, 9, 26277-26285.	10.3	20
27	Concave Cubic Pt-Sm Alloy Nanocrystals with High-Index Facets and Enhanced Electrocatalytic Ethanol Oxidation. <i>ACS Applied Energy Materials</i> , 2019, 2, 7204-7210.	5.1	19
28	Lattice-compressed and N-doped Co nanoparticles to boost oxygen reduction reaction for zinc-air batteries. <i>Applied Surface Science</i> , 2020, 525, 146491.	6.1	17
29	Urea hydrogen bond donor-mediated synthesis of high-index faceted platinum concave nanocubes grown on multi-walled carbon nanotubes and their enhanced electrocatalytic activity. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 31553-31559.	2.8	16
30	Metallic iron doped vitamin B12/C as efficient nonprecious metal catalysts for oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 16230-16239.	7.1	16
31	On an Easy Way to Prepare Fe, S, N Tri-Doped Mesoporous Carbon Materials as Efficient Electrocatalysts for Oxygen Reduction Reaction. <i>Electrocatalysis</i> , 2019, 10, 72-81.	3.0	15
32	Fe-N ₄ engineering of S and N co-doped hierarchical porous carbon-based electrocatalysts for enhanced oxygen reduction in Zn-air batteries. <i>Dalton Transactions</i> , 2020, 49, 14847-14853.	3.3	15
33	Electrochemically shape-controlled synthesis of great stellated dodecahedral Au nanocrystals with high-index facets for nitrogen reduction to ammonia. <i>Chemical Communications</i> , 2020, 56, 12162-12165.	4.1	15
34	Nitrogen-Doped Mesoporous Carbon Layer with Embedded Co/CoOx Nanoparticles Coated on CNTs for Oxygen Reduction Reaction in Zn-Air Battery. <i>Electrocatalysis</i> , 2019, 10, 277-286.	3.0	13
35	Exploiting encapsulated FeCo alloy decorated N-doped hierarchically porous carbon electrocatalysts in rechargeable Zn-air batteries. <i>Journal of Alloys and Compounds</i> , 2021, 870, 159417.	5.5	13
36	Carbon-Nanotube-Encapsulated-Sulfur Cathodes for Lithium-Sulfur Batteries: Integrated Computational Design and Experimental Validation. <i>Nano Letters</i> , 2022, 22, 441-447.	9.1	12

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37	Boosting Electrocatalytic Hydrazine Oxidation Reaction on High-Index Faceted Au Concave Trioctahedral Nanocrystals. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 696-702.	6.7	11
38	Encapsulated Co _x S _y nanoparticles decorated S, N-doped mesoporous carbon as effective bifunctional oxygen electrocatalyst in rechargeable Zn-air battery. <i>Journal of Alloys and Compounds</i> , 2021, 858, 157665.	5.5	10
39	Highly Efficient Nanoflower-like Bifunctional Electrocatalyst Co-W-B-P/CF for Overall Water Splitting. <i>ACS Applied Energy Materials</i> , 2022, 5, 4259-4269.	5.1	10
40	Porous Mn ₂ O ₃ microcubes with exposed {001} facets as electrode for lithium ion batteries. <i>New Journal of Chemistry</i> , 2016, 40, 6030-6035.	2.8	9
41	Cross-linked porous Fe ₂ O ₃ nanorods as high performance anode materials for lithium ion batteries. <i>RSC Advances</i> , 2016, 6, 97385-97390.	3.6	9
42	High-index faceted Pt-Ru alloy concave nanocubes with enhancing ethanol and CO electro-oxidation. <i>Electrochimica Acta</i> , 2021, 396, 139266.	5.2	8
43	Mn doped CoP/Ni foam catalyst for hydrogen generation from hydrolysis of sodium borohydride. <i>Materials Letters</i> , 2022, 308, 131166.	2.6	7
44	Mesoporous S,N-Codoped Carbon/Co _x S _y Hybrid Catalyst for Efficient Bifunctional Oxygen Electrocatalysis in Rechargeable Zn-Air Batteries. <i>Energy & Fuels</i> , 2021, 35, 19811-19817.	5.1	7
45	Improving the conductivity and dimensional stability of anion exchange membranes by grafting of quaternized dendrons. <i>Journal of Polymer Science</i> , 2022, 60, 2055-2068.	3.8	4
46	Reliable and flexible supercapacitors toward wide-temperature operation based on self-supporting SiC/CNT composite films. <i>Journal of Materials Chemistry A</i> , 2022, 10, 15708-15718.	10.3	4
47	Core-shell structured nanoporous N-doped carbon decorated with embedded Co nanoparticles as bifunctional oxygen electrocatalysts for rechargeable Zn-air batteries. <i>New Journal of Chemistry</i> , 2021, 45, 2760-2764.	2.8	3